

## ACADEMIC POLICY IS REVISED

### Spring Grads Wear Out Little Shoe Leather

83% Find Positions  
As Pessimistic Reports  
Voided By Korean War

Describing the demand for engineering graduates as "exceptionally active," Placement Bureau officials here at the Institute reported today that to date more than 83 per cent of 1st June's graduates—the largest group in the Institute's history—have definitely accepted jobs.

"This year's placement," said Nathaniel McL. Sage, placement officer, "is just as good as last year's if not better. Because this year's class was larger, this means that we have placed a larger number of graduates than ever before."

Predictions made 12 months ago by the U. S. Department of Labor, which indicated that a substantial number of engineering graduates in the June, 1950, classes would have difficulty finding jobs, have not been realized, placement officials stated. Instead, the national—as well as the local—placement situation seems to have been about as favorable as in 1949.

#### Business Stays Good

Unexpected maintenance of peak business activity and confidence during the early months of 1950 is largely responsible for the change in the graduate's outlook. Officials believe, too, that the developing international situation will continue to intensify the demand for graduates in all scientific and technical fields.

Latest statistics show that 83 per cent of the M.I.T. graduates in the June, 1950, commencement—including undergraduates and graduate students—have reported acceptance of jobs or plans to continue advanced education. Many of the class have made no report to the Institute's placement officers but are believed to have accepted positions without sending notification.

The starting salaries of June graduates from M.I.T., according to Mr. Sage's report, are about the same as in 1949. The average for bachelor's-degree-holders is about \$265 and for master's-degree graduates about \$325.

There is indication of continu-

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### Compton To Live Soon In Eastgate Penthouse

While waiting for his penthouse apartment at Eastgate to be completed, Dr. Karl T. Compton, chairman of the Corporation of the Institute, is residing in the master suite of the New Dormitory. He has made the rooms an unofficial headquarters from time to time during the summer and expects to move to his new apartment within two weeks.

Last year, the late Dean Everett M. Baker arranged for several professors and their families to live in the New Dormitory master suite for periods of about two weeks to allow students and professors to meet informally. No decision has been made yet on whether the master suite plan will be continued.

### THE LUCKY THIRTEEN



Photo by Bronson

Bottom row: left to right: Anna Bailey, Betty-Ann Sabin, Florence Tse-yun Kao; Second row: Elaine Bialick, Phyllis Anthony, Marilyn Leader, Marilyn Fraser, Alyce Staff, Nancy Ann Mondock; Third row: Barbara Beyer, Carol Hannauer, Helen Dugar, Bobbie Grey.

## Female Contingent Enhanced By 13 Frosh

By BARBARA BEYER and ALYCE STAFF  
Circle 7-8646. Remember that number. It's an important one if you desire lusty female companionship. It's the telephone number of the Women's Dormitory at 120 Bay State Road in Boston.

This year Technology opened its doors to thirteen co-eds. Of these thirteen, four are commuters—Anna Bailey, Marilyn Fraser, Carol Hannauer, and Betty-Ann Sabin.

### LSC Starts Series Of Varied Lectures By Six Authorities

Fee Will Be Charged To Hear Nash, Lerner, Capp, Sheean, Others

In addition to its regular series of lectures, movies, and forums, the Lecture Series Committee is this year launching a new program to bring to the Institute six foremost speakers from a variety of fields. Planned in cooperation with the Division of Humanities, the six lectures will replace the former series of three talks presented by the Division.

Already contracted are Odgen Nash, noted writer of humorous verse; Max Lerner, eminent economist and author; Pierre van Paasen, author of *Days of Our Years*; Montimer Adler, Professor of Philosophy of Law at the University of Chicago; Vincent Sheean, authority on India and the Far East; Al Capp creator of the widely read and quoted comic strip *Lil' Abner*.

#### Admission Price Required

Although the series is being subsidized by the Division of Humanities, a small admission charge will be required of those attending. As usual the talks will be presented in Huntington Hall at 5:00 p.m., and question periods will follow each presentation.

The first lecture is set for October 23, and dates for the remainder have been arranged with three talks coming in the first term and three in the second.

Anna came from Finland two years ago and is now living in Boston. She plans to major in chemical engineering.

Marilyn Fraser, who lives in Wellesley, plans to study architecture. A music lover, she is a violinist in the Boston Civic Symphony Orchestra. Her other interests include drawing and painting.

#### Husband-Hunting Mentioned

Carol also lives in Wellesley. She will be a physics major but her interests are hardly one-sided. She answered the Glee Club's call for women, and you might find her sewing while singing. When asked by an Administrative Assistant for her reasons for coming to Technology, she replied, "I have to get a husband some way, don't I." She is very proud of the fact that she doesn't have to take M. S.

Haverhill, Massachusetts, can be mighty proud of Betty-Ann. A future meteorologist, she loves flying and music.

Now for the dorm-dwellers—Phyl Anthony came to the Institute from Penn Hall, a prep

(Continued on Page 4)

## Twenty-Six Students Participate In Riverside Housekeeping

By DAVID WEBER

Because of the increased demands for loans and scholarships, which cannot be completely met, the administration has decided to institute a program of expanded student staffs that will take care of housekeeping duties in the new Riverside Dormitory. This plan to give students an additional chance to earn part of their college expenses is a unique one in the Boston area. The twenty-six man staff at Riverside will receive free lodging for their work. A somewhat similar system attracted nationwide interest, when the girls of Sarah Lawrence College, Bronxville, N. Y., decided to bolster depleted operating funds by doing their own house cleaning.

Staff Captain Fred Fickenwirth reports that the men were enthu-

siastic about their new organization and that Riverside Students staff has been on duty since Sunday, Sept. 10. In order that the future residents of the dormitory could move in before school started, fifteen members of the staff prepared 420 Memorial Drive, where families are still living, for temporary occupancy, while the contractors finished their work on 410 Memorial Drive, the section of the building closest to the Institute.

#### Five Men To Floor

There are five floors in 410 Memorial Drive, and five staff members will be assigned to each floor. Of these, three will dust and dry mop the rooms, as well as supply linens and towels twice a week. These three students will take care of

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## Committee Seeks Eased Class Load, Humanities School

Fundamental changes in educational policies at the Institute are likely to come about as a result of the recently completed work of the Committee on Educational Survey. Established in 1947 to review the state of education at Technology and to re-examine the principles of education that have guided academic policy at the Institute for almost ninety years, the

### Coop Cuts Refunds, Will Distribute 10% On Cash Purchases

Patronage refunds to be distributed on or after October 13 by Harvard Cooperative Society for the year ending June 30, 1950, will be a guaranteed minimum amount of 8 per cent for charge accounts and 10 per cent for cash purchases, according to Mr. G. E. Cole, General Manager.

Total sales for both the Harvard and Technology stores for the year ending June 30, 1950, amounted to \$3,378,000 of which \$695,000 was reported by the Institute branch. For the year ending June 30, 1949, the total sales were \$3,311,000, of which \$679,000 represented Technology business. Patronage refunds for 1949 were 10 per cent on charge accounts and 12 per cent on cash accounts.

Less profit due to increased expenses and more members were responsible for the refund percentage drop this year. The Coop reported 7,862 members for 1950 as against 7,755 for 1949.

### CORRECTION

Through a typographical error, the word *unfortunate* appeared in the first sentence of last issue's editorial. The sentence should have read, "It is fortunate that a school paper editor is so seldom called upon to write an editorial such as this one." The meanings of the two sentences are, of course, diametrically opposed. We trust that the error did not spoil the impressions conveyed by the remainder of the editorial.

committee suggests that more emphasis be given to the humanities, that fundamental principles be stressed rather than detailed content, and that the curriculum be arranged to prevent overloading the student. It also makes recommendations concerning student and staff environment problems peculiar to the Institute as an urban Technological school of high calibre.

#### Stabilized Enrollment Needed

Reviewing the problems of enormous expansion during the war and an increase in the demand for higher education, the committee emphasizes that increased diversification and increasing numbers of students threaten the unity of faculty and student body which has been one of the Institute's greatest assets.

While the report reaches no quantitative conclusion about the size of the Institute, it believes that stabilization of student enrollment at approximately the present or slightly lower level is desirable.

#### Increased Emphasis on Fundamentals

The committee recommends that the faculty "adopt as a basic policy the principle that the primary objectives in undergraduate years are general ones of developing intellectual power rather than accumulation; and sensitivity to a variety of values and broad understanding of nature and man rather than specific competence in a narrow field."

To implement such a policy, the report recommends:

1. That the subjects of instruction be improved by reducing the detailed content and by increasing the emphasis on fundamental principles and upon the development of powers of judgment and discernment.

2. That the humanities staff be strengthened and that instruction in the humanities and social sciences be fortified by extending the time allotted to these subjects in the common curriculum and arrangement of subject sequences which will develop depth as well as breadth.

3. That greater allowance be made for individual differences in student aptitudes and interests.

4. That care be taken not to load the student with so many obligations that he has no chance for reflection.

The committee also recommends that specific efforts be made to improve the quality of undergraduate teaching by increased recognition of effective teachers, guidance for the younger and relatively inexperienced members of the teaching staff, and improving the campus environment to make it most conducive to effective teaching.

In urging establishment of a sep-

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# The Tech

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## FRESHMAN CAMP

The traditional freshman orientation program was held here at the Institute this year instead of at Camp Wonderland in Sharon, Massachusetts. The committee did a very good job of attending to the administrative details of the program, and attendance at Freshman Camp was higher by some 100 frosh over last year's figure, but we feel that Freshman Camp should be moved back out to the country. The orientation program should insure that the freshmen be mixed and mingled under circumstances where acquaintances can easily be made, and this purpose of the program is much better met where the entire class is moved out to the country and bunked eight or ten to a cabin for a few days. In holding the Camp here at school it becomes a part-time affair, with the freshman participating only by attending the formal functions and for the rest of the time living much as they would if there were no Camp at all, scattered around in their permanent residences in the Dormitories, the fraternities and in rooming houses. The country Camp is the only place that commuting students can get the benefit of "full time" orientation.

Although the attendance figures indicate a greater participation in this year's Camp, it is not true that everyone attending participated fully. During the course of the program, about fifty per cent of the original number of Freshman Campers stopped coming to the rallies. This of course does not happen at the country Camp.

We would like also to see an attempt made to improve the quality of some of the planned activity in the Freshman Camp. As indicated by the large numbers who dropped out before the end this year, the freshmen were very greatly bored by some of the long, long speeches they heard at the rallies.

The success of all future Freshman Camps might be helped also if upper classmen, particularly in the fraternities, would stop telling freshmen not to "waste their time" by participating. It's a simple matter to forget, in the course of a year or two, the value of this orientation program, and a lot of freshmen have missed a valuable experience by heeding the foolish advice to pass up the only formal orientation they can get at Technology.

## THE LEWIS REPORT

After a long wait, the report of the Committee on Educational Survey is now available to everyone. Since its inception in 1946 the work of the committee has been a kept secret of the Faculty, avowedly to keep the general public from thinking that the Institute had suddenly discovered its educational foundations in a sad state of neglect and in need of drastic repair, and also to enable the Committee to work in an atmosphere of the greatest possible freedom, without distraction from such armchair educational philosophers as might spring up in the student body once the word had gotten around that such a project was under way. So there are very few students who know that for the past four years such fundamental issues as whether undergraduate education at Technology should or should not be continued have been under question by an important Faculty committee. The committee finished its work about a year ago, and since that time the Faculty as a whole has had the report over the fire, considering each recommendation in turn, still in secret because it was felt that many of the more momentous suggestions would undergo considerable alteration before final approval.

In its final form the report is an impressive volume published by the Technology Press, and it is fascinating reading. We can think of no other instance where it has been officially suggested that students here might, actually be loaded too heavily, or that not enough recognition is given for good teaching, or that it might be desirable to have fewer subjects at any one time with more time spent on each.

In the next few weeks we shall discuss some of the points brought out in the report, and report the progress being made in bringing these suggested new policies into effect.

In the meantime, interested individuals can purchase bound copies of the report at the Technology Press office on the first floor of Hayden for the price of \$1.25 per copy. We think that it should be widely read by students so that they might appreciate faculty efforts to improve undergraduate education here, and also so that the student voice can be added in strong approval of almost every educational reform suggested in the report.



By STAN BENJAMIN

"Here's one for you," Dave said, when he handed me the following telegram addressed to The Tech. It's dated August 29 from Rockford, Illinois, and reads: AM SUBMITTING REQUEST FOR ONE BOX SEAT IN A BOMB SHELTER SHALL I BRING MY KNITTING—R. H. EISENGREIN ALUMNUS VIP  
 Well, Mr. Eisengrein, things being what they are, it's difficult to say just when box seats in A Bomb shelters will be available, but if you care to wait a few months, we may be able to get you a choice rock in a conveniently located cave. Better forget the knitting, though. Nonetheless, it's always nice to hear from an ALUMMUS. Whatever that is.

## "KOREA PUT UN BACK IN BUSINESS"

So read the headline of an article in Tuesday's edition of a large Boston newspaper. The article, under the heading of National Affairs, was largely a report of recent U.N. doings, but buried near the end was this choice bit of commentary:

"... But there's something in all of this which is to the good." ... "As long as we keep the show in a big room in the UN, no matter how noisy, and not let it get outside to the battlefields, then we are making progress." Seems that fellow read his own headline through rose-colored binoculars—or does he think that the war in Korea is just part of the Boston Jubilee? The "show," we timidly point out, has already gotten out onto the battlefields! And we wonder how wide the naive outlook above has spread. Optimism these days seems to be necessary to mental happiness, but I doubt that even the controversial Mr. Malik would claim that the "show" has stayed inside the "big rooms" of Lake Success.

Consolation of the Week: We sincerely hope that certain fellows in the Old Senior Dorms, having been in hot water most of last year, have found it a refreshing change to be out of it for six days—because nobody else liked it.

National Nostalgia Day—It's about time someone started a National Nostalgia Day, on which everyone would pause briefly in his hectic, atomic existence, and pay silent tribute to the good old days gone by. Those dear old days when people were satisfied to fly slow enough to hear the roar of their motors—when brick houses with plain glass windows were considered safe for ordinary habitation. But things just aren't what they used to be. Only last summer, several flying saucers reportedly outraced our fastest jet fighters, and a kitten beat a trained group of Alpine climbers to the top of the Matterhorn. And the English channel has been thoroughly swum. Well, that's the way it goes.

A copy of the Lasell News of last May has just been brought to our attention by the discovery of a reprint in same of a survey taken by members of the Babson Beaver (Babson Institute). The survey, conducted among members of the Lasell Senior Class, posed questions

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Christian Science Organization at M.I.T.

Holds meetings which include testimonies of Christian Science healing every Tuesday at 5:15 p.m. in Tyler Lounge.

All Are Welcome

## off the beat

By RICHARD JUDSON POWELL

In keeping with the current spirit of things around here, I am devoting my column today to our fellow freshmen. After the confusion of registration, the first trip to Scullay Square and the Voo Doo Smoker, you may wonder if Boston has any culture. It has, and plenty!

The arts best represented in Boston are music and painting. Regarding the former, there is of course the Boston Symphony, unquestionably America's greatest orchestra. Concerts are given by the orchestra on a subscription basis on Friday afternoons and Saturday evenings, with two abbreviated series given on Tuesday nights and Sunday afternoons. Tickets are virtually impossible to get for most of the concerts, but it is rumored that the orchestra is planning, for the first time in its history, a series of open rehearsals Thursday evenings.

This season, Muench's second as permanent director, the guest conductors will be Koussevitzky, Monteaux and Bernstein; and among the soloists performing with the orchestra there will be Horowitz, Rubinstein, Platasorsky and Heifetz.

For those with budgets, the Isabella Stewart Gardner Museum, on the Fenway, offers free, Sunday afternoon recitals at 2:00 p.m. The names may not be as familiar as those appearing at Symphony and Jordan Halls, but the programs are varied and the talent first rate.

Boston, in actuality, is like one large museum; everything is old and crumbling, and since the police strike nothing has been the same. Nevertheless, there are three excellent collections of paintings in the vicinity. The largest of these is the Museum of Fine Arts, located on Huntington Avenue; besides its comprehensive collection of paintings and sculpture, there is one of the world's finest displays of Oriental art.

The Gardner Museum, mentioned (Continued on Page 3)

## Graduates

(Continued from Page 1)

ing brisk demand for Institute graduates in the several years immediately ahead. This prediction reflects not only the needs occasioned by military affairs and the international situation but also arises from the fact that engineering graduates are now finding opportunities in areas where they have not previously been employed widely.

## Greener Fields

Such a field, Mr. Sage said, is "sales engineering." A number of this year's graduates have taken positions in this field to help in putting their employers' products to work in a soundly engineered environment. More and more engineers, too, are entering administrative and executive work, and smaller industries are increasingly employing engineering graduates.

Of this year's June graduates at the Institute, those receiving the two-year professional engineering degree lead the placement picture with a 100 per cent record. Master's degree recipients have reported 93 per cent placement, doctor's degree holders 85 per cent, and bachelor's degree men show 79 per cent now with jobs. However, Mr. Sage adds, "the largest portion of those who have failed to report actual placement to us are in the latter group."

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(CONGREGATIONAL)

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## AFTER HOURS

### DANCES

Informal dance sponsored by Student Social Committee of Boston City Hospital Training School—Wednesday, Sept. 20, at 8:30 p.m. Tickets available at Walker Committee office.

Simmons Freshmen will sponsor a "Get Acquainted Dance" at the Boys' Latin High School Gymnasium. It's free—7:30 to 11:30 p.m., Saturday, Sept. 23.

The Hotel Commander will sponsor one of a series of dances at 60c each or \$1.20 per pair, commencing at 8 p.m. This place is—of course—in Cambridge, Garden Street, to be exact.

### SPORTS

**FRIDAY, SEPTEMBER 22**  
Boston College vs. Wake Forest at Braves Field.

**SATURDAY, SEPTEMBER 23**  
New York Giants vs. Boston Braves in day game.

**SUNDAY, SEPTEMBER 24**  
New York Giants vs. Boston Braves (day game).

**MONDAY, SEPTEMBER 25**  
Philadelphia Phillies vs. Boston Braves in a doubleheader.

**TUESDAY, SEPTEMBER 26**  
Phillies still here.

**WEDNESDAY, SEPTEMBER 27**  
Boston Red Sox take on Washington in a doubleheader.

**THURSDAY, SEPTEMBER 28**  
Washington still here—singleheader.

**FRIDAY, SEPTEMBER 29**  
Washington closes a four-game series.

**SATURDAY, SEPTEMBER 30**  
The Yankees take on Boston.

### Dormitory Residents

There will be an eclipse of the moon Monday, September 25, at about 11:00 p.m.

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School Supplies  
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Cambridge, Mass.

## Riverside

(Continued from Page 1)

48 men. The fourth man will be in charge of the showers, lavatories and corridors, while the fifth will be responsible for the stairs, and the storage and distribution of supplies. Each member of the staff will work two hours a day for six days, a total of twelve hours a week.

Two reports will be made out by the Captain each day, one will necessitate the checking of 70 different objects on each floor, while the other will be an inspection report of 80 different spots in the dormitory, which will each receive a rating of excellent, good, fair or poor. This systemized inspection is planned to aid the student in his work and to insure a high standard of housekeeping.

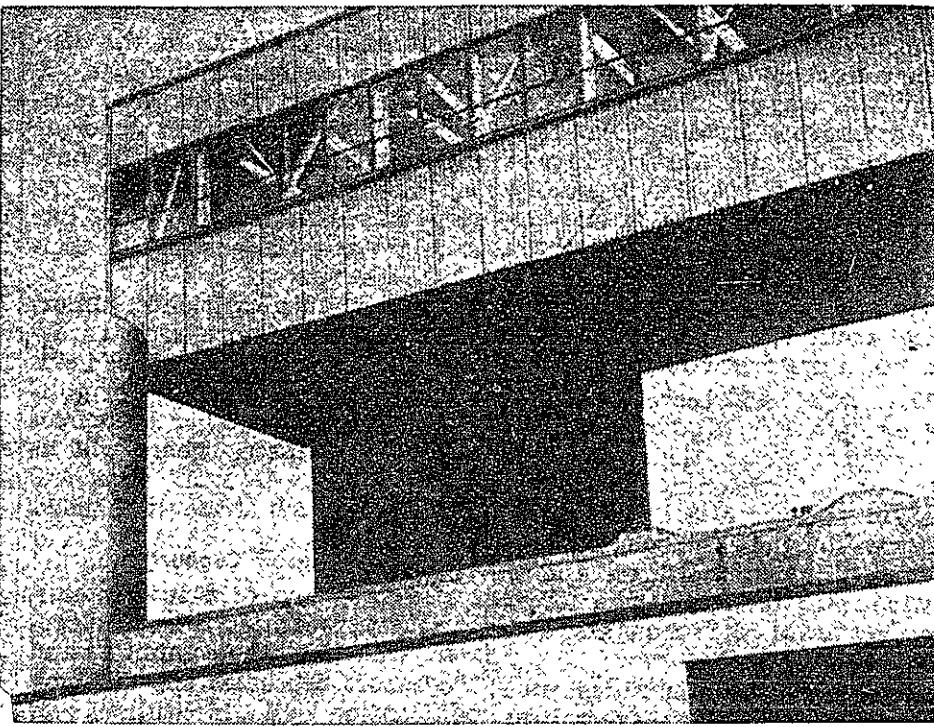
### Plan to be Extended

Mr. Carlisle, Advisor to the Walker Memorial Student Staff, aided the Captain in the selection of the students, who were chosen after answering questionnaires and being personally interviewed.

The only student aid plan in this area, in any way similar to the one established at Riverside, is in operation at the Myles Standish Dormitory of Boston University, where fifteen students operate the former hotel's elevators. They too receive their rent as payment.

Dr. Bender, Dean of Students at Harvard University, approved highly of the plan and stated, that this is the way we will have to go if we are to meet the needs of all those who wish to obtain a college education.

## CHAMPION ATOM SMASHER



The latest addition to Technology's skyline which is near completion  
—The 12 MEV Generator

Photo by Hall

## Off the Beat

(Continued from Page 2)

above, also houses an excellent collection of great paintings. It is the personal collection of a woman who collected anything and never departed with a thing: scattered among the great paintings, such as Titian "Rape of Europa" one may find odd pieces of paraphernalia such as walking canes, old letters, shoes, etc. The last of the three museums is the Fogg Collection of Harvard University. Small but select the collection is always being

rotated, and supplemented by loan exhibits.

## CREATIVE WRITERS!

Those students who might be interested in joining a Creative Writing Group are asked to submit their names to the Headquarters of the English Department. The project would be run on an informal basis, though it might be possible for members to receive some credit from the Humanities division.

## 12 Million Volt Generator Now In Final Stages

By ALEX DENSBERGER

Students who have been watching the new addition to the Technology Skyline will be glad to know that at the end of this year one of the world's largest electro static generators will be put into action. With a capacity of 12 million electron volts this generator, designed by Dr. John G. Trump of the Dept. of Nuclear Research, is the second largest of its type and capacity in the world.

Tremendous potentials are built up in the generator on an endless silk belt which travels at high speeds against glass brushes from which the power is tapped. The resulting beam of electrons is shot down from the tank past the belt into the room below. It then enters the V field of a powerful magnet which deflects the beam across the X test floor to the desired material. The belt itself is housed in a 36-foot steel tank two inches thick and 12-feet in diameter, the tank being surrounded by two and a half feet of concrete to catch radiation.

This improved type of generator can develop greater potentials than its predecessors through its system of insulation. The twin tanks on the side of the building contain the inert atmosphere which is pumped into the tank to aid the "equi-potential" plans which surround the belt and insulate the generating assembly. Normally a Van de Graff generator will have two regions of high and low potential insulated by air at atmospheric pressure. The 12 mev will operate in an atmosphere of sulfur hexafluoride or nitrogen at a pressure of 350 psi.

While the Van de Graff generator does not develop the tremendous potentials of the cyclotron, it does offer a more closely controlled stream of electrons. A cyclotron may develop 60 mev in surges of electrons being accelerated in an alternating current field, but the Van de Graff generator supplies a more direct source in that it provides a steady and more closely controlled flow of electrons. This voltage is controlled by the regulation of the speed of the silk belt.

## Lounger

(Continued from Page 2)

of general interest, starting with this one:

"Q. 1. What is your favorite men's college in the vicinity of Boston?"  
"A. Babson, Tufts, and M.I.T., in order."

So there you are—third! Of course Harvard didn't rate at all, but then that's certainly no criterion. How about it, you M.I.T. Lotharios? Don't you think that something should be done to remedy this mortifying situation? We may not be able to improve our Lasell Rating, but we can sure have fun trying!

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Copy, 1950 by The Parker Pen Company

## Symposium Explores Possibilities Of Solar Heating For Houses

Results of experiments in solar heating conducted throughout the United States were presented during the summer at a five-day symposium held at the Institute.

Dr. Hoyt C. Hottel, professor of chemical engineering and chairman of the Institute Solar Energy Conversion Committee, emphasized that the week's conference was designed to help architects and research engineers pool their knowledge of solar heating and focus on the problems yet to be solved.

Present-day solar heat collectors in use on experimental houses on Memorial Drive and in Colorado, Dr. Hottel said, operate with an efficiency of about 35 per cent . . . that is, they collect about one-third of the heat which actually falls on them. This means that present-day collectors as large as one-fifth the area of the house walls and roof are inadequate for house heating in climates such as that of Boston.

### That Boston Weather

Because of cloudiness and haze even on clear days, Dr. Hottel said, the available sunlight in New England is "materially below" that required.

"We conclude," he said, "that solar heated houses in New England must be unusually well insulated."

### Frosh Girls

(Continued from Page 1)

school in Chambersburg, Pennsylvania, although she lives in Manhasset, Long Island. She plans to become an architect, "a woman's field" she calls it. She's interested in working with the Drama Workshop or the Tech Show, backstage only. She was also drafted as a cheerleader although she says, "They don't know what they're in for." Phyl likes odd and queer things. Tech men take note.

Barbara Beyer calls Akron, Ohio, her far-away home. She hopes to become a chemical engineer but while waiting for her course to end, she plans to work on *The Tech*. (God Bless Her.)

Elaine Bialick came from Brooklyn to study biology. She plays the violin in the Tech orchestra and she wants to sing in the Tech Show—if they'll have her.

Elyria, Ohio, sent Helen Dugar to Technology. She plans to join the Drama Workshop and to become an active member of Voo Doo—A master of figures, Helen's major will be mathematics.

### Texas Represented

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(Continued on Page 6)

So light... so dry

...glass  
after glass  
after glass

Schaefer  
Pale Dry

the new beer that's both light and dry

Look for the name  
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on the red and white  
Schaefer label

OUR HAND HAS NEVER LOST ITS SKILL

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Those wishing to sign up for freshman and sophomore squads should see the coaches of the various sports. The names of these coaches and further information on how to sign up can be furnished by Gus Rath, 1950 Field Day Chairman, in the New Dormitory. The various freshman coaches all hope for big turnouts, and indeed plenty of manpower will be necessary to overcome the experience advantage of the sophs.

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# SORORITY OF SERVICE

The girls who belong are calm, competent, considerate. Their job is to get your call through quickly and accurately, wherever you want to go—day or night, any day of the week. And courtesy is their creed. They are the 220,000 telephone operators of the Bell System.

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18-Hole Miniature Golf  
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# Wright Golf & Archery Range

Next to Howard Johnson's and WEEI Towers  
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OPEN—8:00 a.m. to Midnight—Including Sunday  
Tel. MYSTic 8-9789

### Symposium Explores Possibilities Of Solar Heating For Houses

Results of experiments in solar heating conducted throughout the United States were presented during the summer at a five-day symposium held at the Institute.

Dr. Hoyt C. Hottel, professor of chemical engineering and chairman of the Institute Solar Energy Conversion Committee, emphasized that the week's conference was designed to help architects and research engineers pool their knowledge of solar heating and focus on the problems yet to be solved.

Present-day solar heat collectors in use on experimental houses on Memorial Drive and in Colorado, Dr. Hottel said, operate with an efficiency of about 35 per cent . . . that is, they collect about one-third of the heat which actually falls on them. This means that present-day collectors as large as one-fifth the area of the house walls and roof are inadequate for house heating in climates such as that of Boston.

#### That Boston Weather

Because of cloudiness and haze even on clear days, Dr. Hottel said, the available sunlight in New England is "materially below" that required.

"We conclude," he said, "that solar heated houses in New England must be unusually well insulated."

### Frosh Girls

(Continued from Page 1)

school in Chambersburg, Pennsylvania, although she lives in Manhasset, Long Island. She plans to become an architect, "a woman's field" she calls it. She's interested in working with the Drama Workshop or the Tech Show, backstage only. She was also drafted as a cheerleader although she says, "They don't know what they're in for." Phyl likes odd and queer things. Tech men take note.

Barbara Beyer calls Akron, Ohio, her far-away home. She hopes to become a chemical engineer but while waiting for her course to end, she plans to work on The Tech. (God Bless Her.)

Elaine Bialick came from Brooklyn to study biology. She plays the violin in the Tech orchestra and she wants to sing in the Tech Show—if they'll have her.

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...glass  
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## Schaefer Pale Dry

the new beer that's both light and dry

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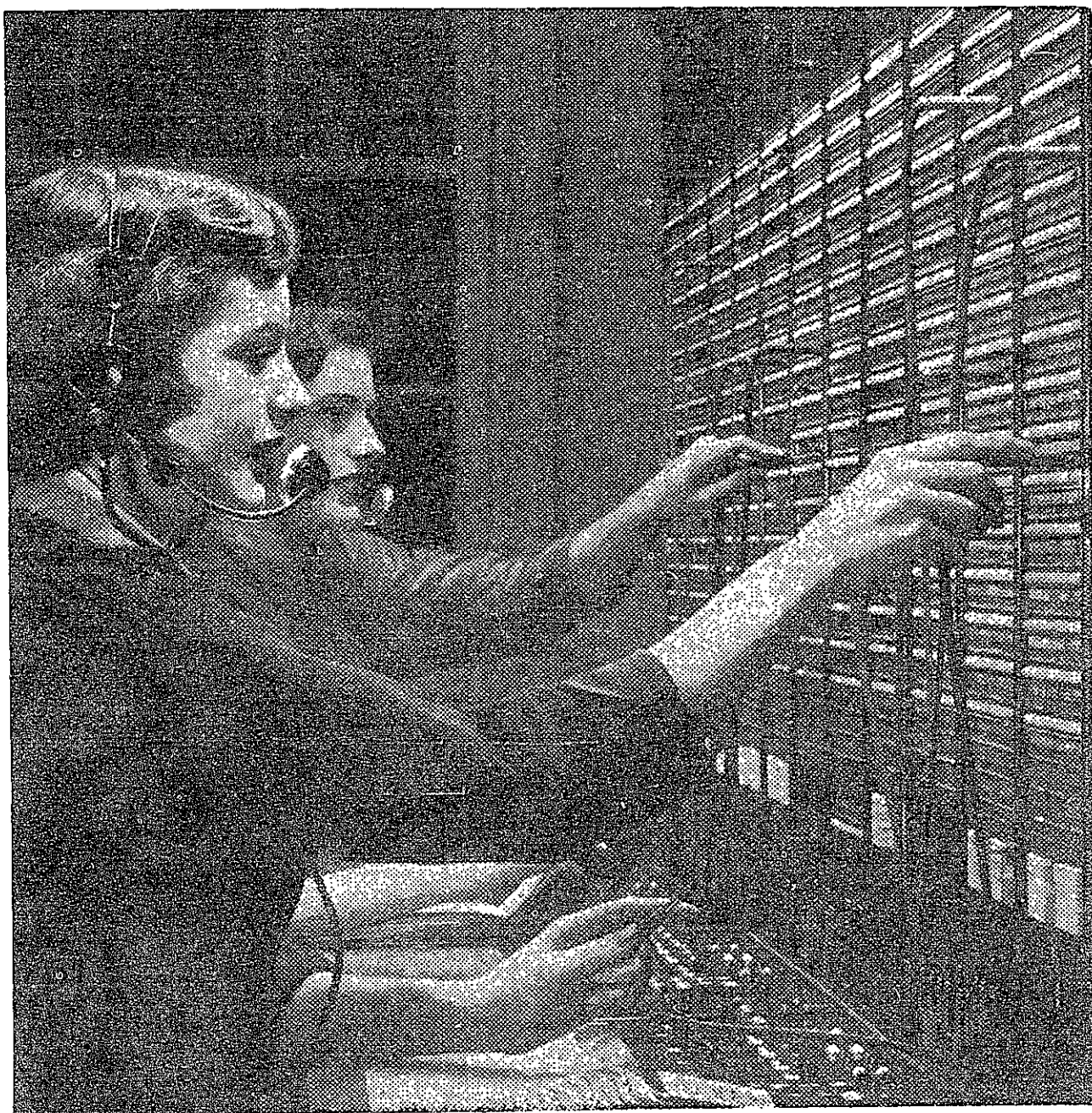
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## Aviation Convention Highlighted By Talk On Ground Facilities

How the changing demands of rapidly advancing aircraft performance affect airports and other ground facilities was the subject of a three-day conference last week here at the Institute.

Highlight of the sessions, which ended on Thursday afternoon, September 14, was the conference dinner Tuesday evening in the New Dormitory.

Professor A. J. Bone of the department of civil and sanitary engineering was general coordinator of the conference, one of a series of special events which featured the Institute summer session during the 1950 season.

Sponsors of the Conference on Ground Facilities for Air Transportation, in addition to the Institute were the Port of New York Authority, the Civil Aeronautics Administration, and the Massachusetts Aeronautics Commission. The committee in charge of arrangements included Professor Bone, Professor John B. Wilbur, head of the M.I.T. department of civil and sanitary engineering; Professor Jerome Hunsaker, head of the department of aeronautical engineering; William E. Cullinan, Jr., chief of the airport division, Civil Aeronautics Administration; Crocker Snow, director of the Massachusetts Aeronautics Commission; and Professor Otto C. Koppen of the department of aeronautical engineering, M. I. T.

## NOTICES

### Institute Committee Minutes

The minutes of Institute Committee meetings for the past two years were taken from the Institute Committee office previous to the opening of school. The Walker Memorial Committee would appreciate it if anyone who knows anything about the minutes would contact Miss Mary Burke in the Institute Committee office.

### History Reading Groups

There will be a meeting for students interested in the history reading groups on Monday, September 25, at 3:00 p.m. in Room 2-132. These groups offer an opportunity for qualified students to do directed reading on special subjects. Students who have already enrolled need not attend the meeting.

### Hillel Foundation

Dr. Ludwig Lewinsohn, scholar, lecturer, and author, will speak to a Hillel Oneg Shabat tonight at 7:30 p.m. in the 5:15 Club Room of Walker Memorial. A Friday Eve

service, folk-dancing, and singing will follow.

### Tech Show Smoker

TECH SHOW 1951 will hold its annual smoker on Wednesday, September 27, in Tyler Lounge of Walker Memorial, from 4:00 to 6:00 p.m. Sign-ups for tryouts for parts in the cast and chorus may be made at the time. If students are interested in the show, but are unable to attend the smoker, they should send a note to TECH SHOW, Building 18.

### T.C.A. Smoker

The Technology Christian Association will give a Freshman Smoker on Thursday, September 28, in its newly located office on the second floor of Walker Memorial. Refreshments will be served.

### Senior Pictures

Seniors must sign up in the lobby of Building 10 before 5:00 p.m., Friday, September 29, in order to have their portraits appear in the 1951 Technique. Sittings will begin Monday, October 9, in Building 18. Seniors at that time may pick up biography blanks.

## Report

(Continued from Page 4)

the faculty and administration be guided by the following objectives:

1. Increased emphasis on maintaining such a balance between sponsored research and other activities that adjustment to change can be accomplished readily.
2. An expanded effort toward support of fundamental scientific inquiry.
3. A broadening of the base of sponsored projects support by increased industrial participation.
4. Avoidance in the future, as in the past, of undertaking sponsored research primarily for the purposes of financial gain or of securing supplementary salaries for staff members.

## Propeller Club Awards Pi Sigma Phi Key To Two Institute Grads

Recipients of the Pi Sigma Phi award of M.I.T.'s Propeller Club, were William S. Chambers, '51, of Princeton, New Jersey, and David J. Seymour, '51, of Wilton, Connecticut.

Present at the ceremony as guests of honor were Vice Admiral E. L. Cochrane, U.S.N. (ret.) head of the department of naval architecture and marine engineering; and Professor Lawrence B. Chapman, honorary president and faculty adviser emeritus.

## To The Class of 1954

and

## All Other Members

of

## The Tech Family

A most cordial welcome awaits you at Walker

Make your daily visits a constant and regular habit

Morss Hall

Breakfast 7:30-11  
Luncheon 11-2  
Dinner 5-7

Pritchett Lounge

Daily 11 a.m.  
to 12 midnight

Faculty Blue Room

Luncheon 12-2

SAVE 10% AT

"The Peerless"

319 Mass. Ave., Cambridge  
(Just below Lafayette Sq.)

10% discount to all students  
showing their registration certificates  
for • All Laundry Service  
• Dry Cleaning  
• Zipper Repairs

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# "EASIEST TEST IN THE BOOK"

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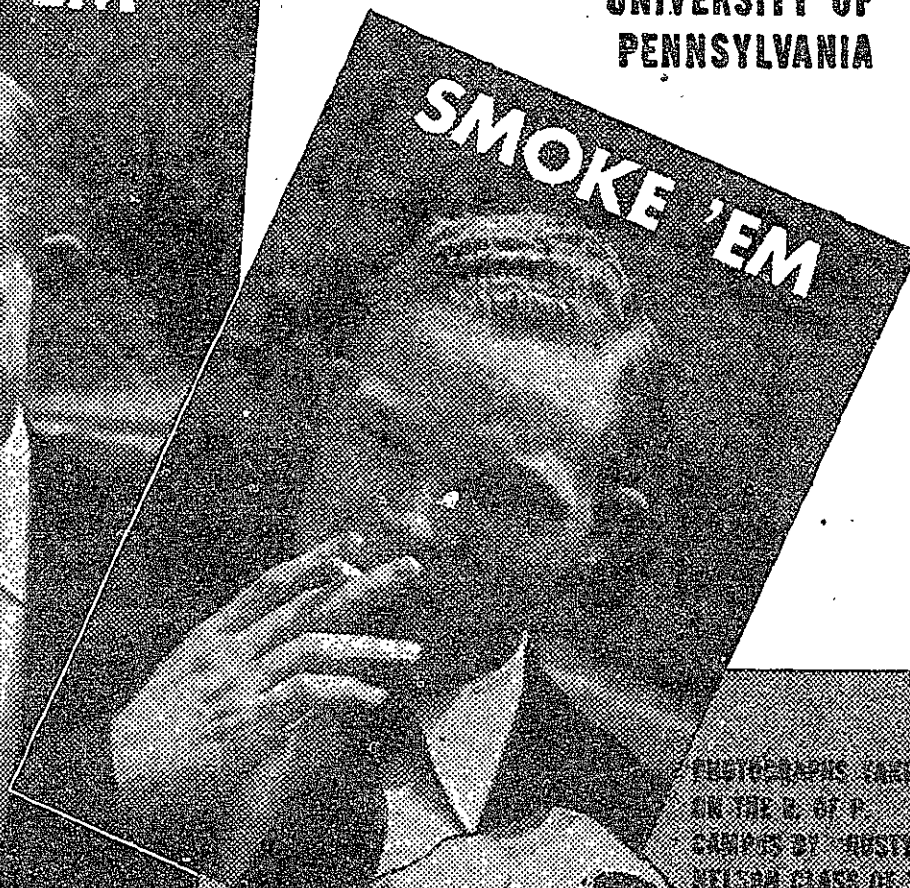


SMELL 'EM



WILLIAM S. VROOMAN '51  
UNIVERSITY OF  
PENNSYLVANIA

SMOKE 'EM



MAKE YOUR  
NEXT PACK CHESTERFIELD!

BEFORE YOU SMOKE THEM

... you can tell Chesterfields will smoke milder.

AFTER YOU SMOKE THEM

... you have no unpleasant after-taste.

WHILE YOU SMOKE THEM you get more pleasure than any other cigarette can give you — that's why millions of smokers say: THEY SATISFY.

# CHESTERFIELD

LEADING SELLER IN AMERICAN COLLEGES



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